WHAT IS CLAIMED IS:

1. In an apparatus for treating cytological or histological specimens, said apparatus having multiple processing stations arranged in a housing and having a transport device for delivering said specimens, or object carriers carrying said specimens, into and out of said processing stations, the improvement comprising:

a modular treatment station having permanently definable functions; and a region, coordinated with said processing stations, for receiving said modular treatment station.

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- 2. The improvement as defined in Claim 1, wherein said region comprises at least two combined reception and connection regions each for receiving a corresponding modular treatment station.
- 15 3. The improvement as defined in Claim 2, wherein said modular treatment station comprises a supply system.
 - 4. The improvement as defined in Claim 3, wherein said modular treatment station further comprises a disposal system.

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5. The improvement as defined in Claim 3, wherein said combined reception and connection regions comprise a bar for reception and insertion of said modular treatment station, and a docking point for connection of said supply system.

6. The improvement as defined in Claim 4, wherein said combined reception and connection regions comprise a bar for reception and insertion of said modular treatment-station, and a docking point for connection of said supply system and said disposal system.

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- 7. The improvement as defined in Claim 5, wherein said modular treatment station has plug-like connector stems and electrical contacts that correspond to corresponding openings and contacts of said docking point.
- 10 8. The improvement as defined in Claim 7, wherein a connection that is electrically conductive is created between said modular treatment station and said apparatus when said modular treatment station is in a docked state.
- 9. The improvement as defined in Claim 7, wherein a connection that is thermally conductive is created between said modular treatment station and said apparatus when said modular treatment station is in a docked state.
 - 10. The improvement as defined in Claim 7, wherein a connection that carries a flow medium is created between said modular treatment station and said apparatus when said modular treatment station is in a docked state.
 - 11. The improvement as defined in Claim 1, wherein said region for receiving said modular treatment station is configured alongside said multiple processing stations.
- 25 12. The improvement as defined in Claim 1, wherein said region for receiving said modular treatment station is configured at least slightly below said multiple processing stations.

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- 13. The improvement as defined in Claim 1, wherein an access opening is provided in said housing for insertion and removal of said modular treatment station.
- 14. The improvement as defined in Claim 13, further comprising a cover for closingsaid access opening.
 - 15. The improvement as defined in Claim 13, wherein said housing includes a back wall and said access opening is provided through said back wall.
- 10 16. The improvement as defined in Claim 15, wherein said access opening is provided through a lateral portion of said back wall.
 - 17. The improvement as defined in Claim 1, wherein said modular treatment station comprises a container for receiving liquid used for treatment of said specimens.
 - 18. The improvement as defined in Claim 17, wherein said modular treatment station comprises a heating station.
- 19. The improvement as defined in Claim 17, wherein said modular treatment station comprises a rinsing device.
 - 20. The improvement as defined in Claim 17, wherein said modular treatment station comprises a turbulence-inducing device for said liquid used for treatment.
- 25 21. The improvement as defined in Claim 17, wherein said modular treatment station comprises a fan.
 - 22. The improvement as defined in Claim 17, wherein said modular treatment station

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comprises an extraction system for extracting vapors.

- 23. The improvement as defined in Claim 22, wherein said extraction system includes an extraction chamber.
- 24. The improvement as defined in Claim 23, wherein said apparatus has a central extraction system for extracting vapors, and said extraction chamber of said modular treatment station is in flow communication with said central extraction system.
- 25. The improvement as defined in Claim 17, wherein said modular treatment station comprises a control system for various functional units.
- 26. The improvement as defined in Claim 25, wherein said control system is a closed-loop control system.
 - 27. The improvement as defined in Claim 17, wherein said chamber also receives said object carriers.
- 28. The improvement as defined in Claim 27, wherein said chamber includes holding means to receive and secure said object carriers.
 - 29. The improvement as defined in Claim 1, wherein said transport device serves to deliver said specimens, or said object carriers carrying said specimens, into said modular treatment stations.
 - 30. The improvement as defined in Claim 29, wherein said transport device is embodied as a robot arm.

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- 31. The improvement as defined in Claim 30, wherein said robot arm has two partial arms.
- 5 32. The improvement as defined in Claim 30, wherein said robot arm is rotatable about a vertical shaft.
 - 33. The improvement as defined in Claim 30, wherein said robot arm is adjustable in height.